

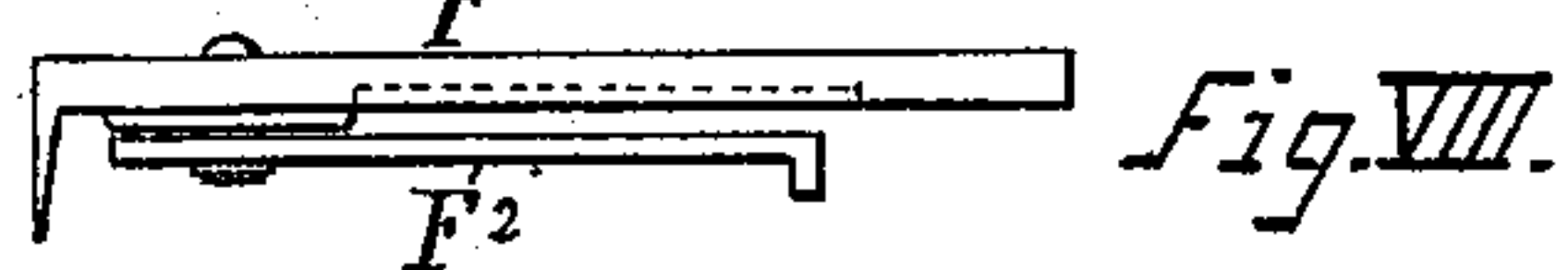
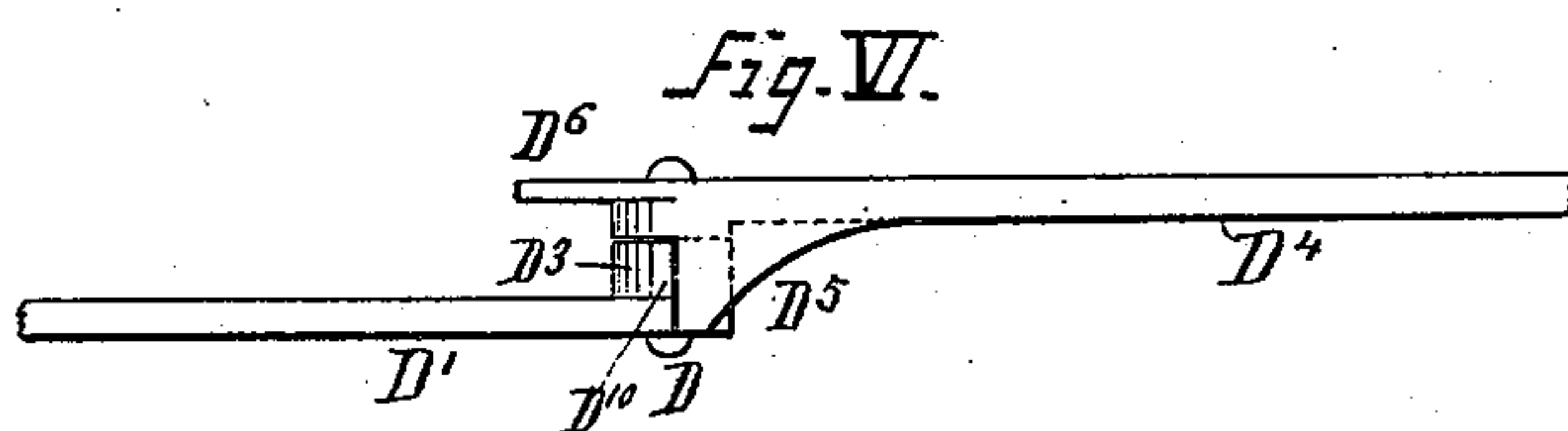
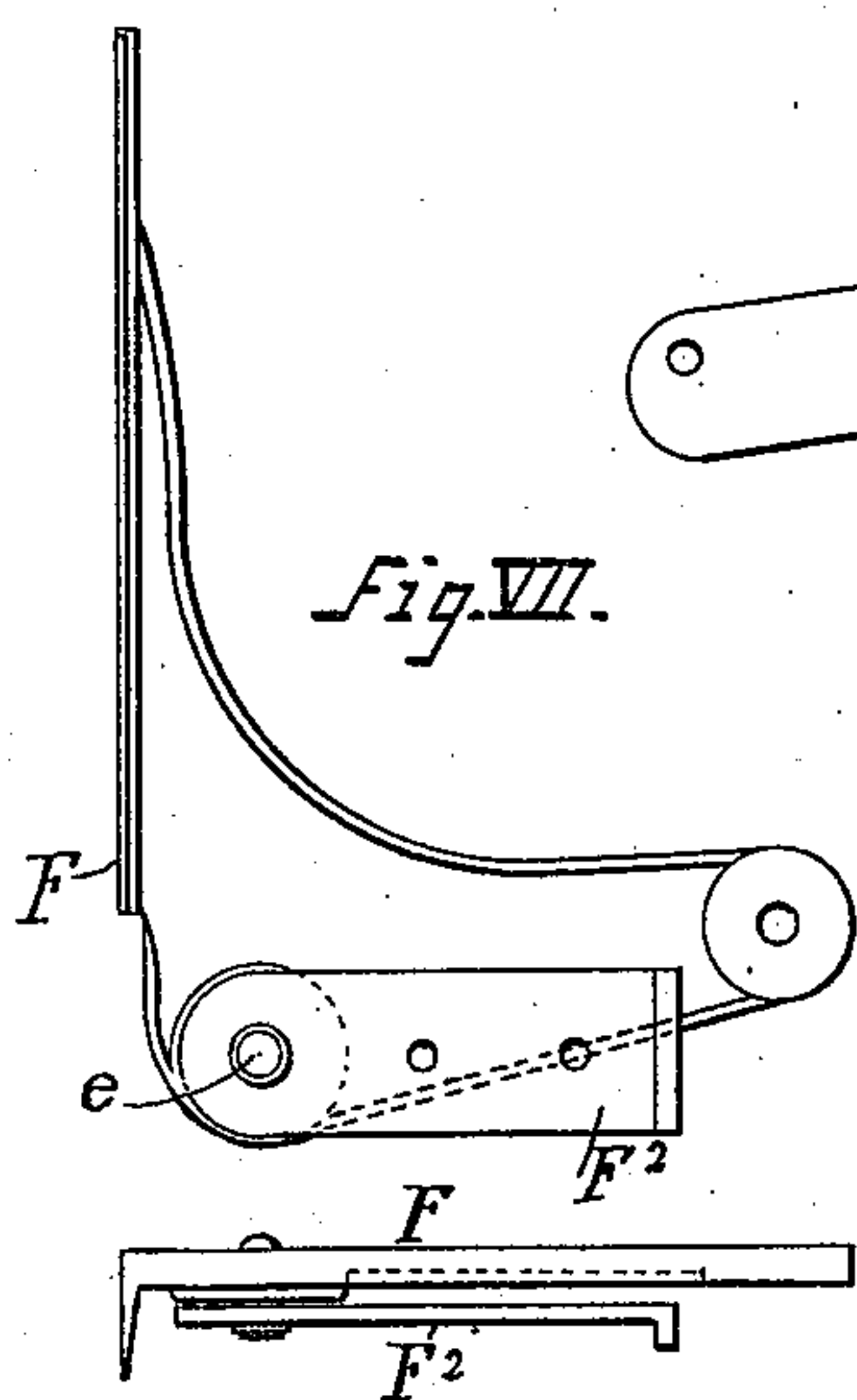
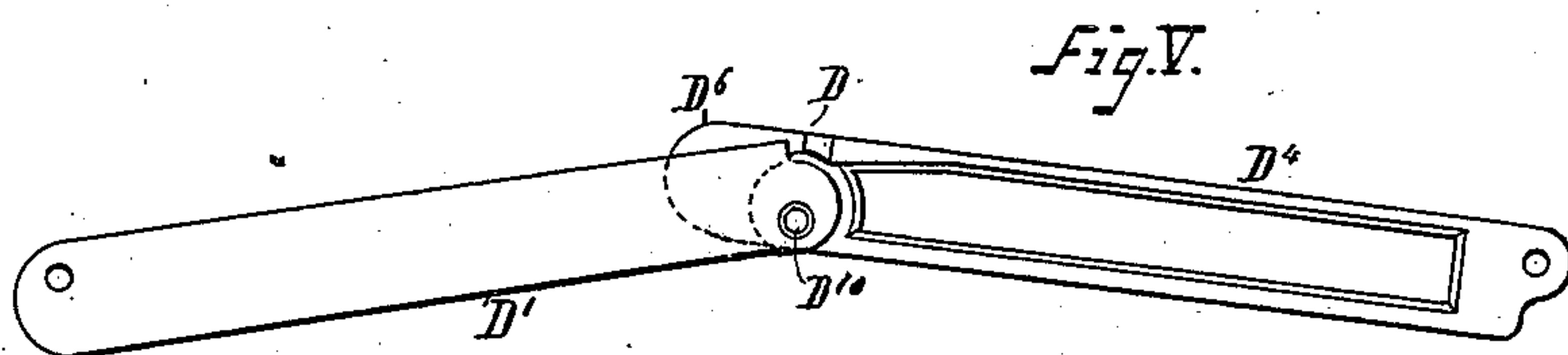
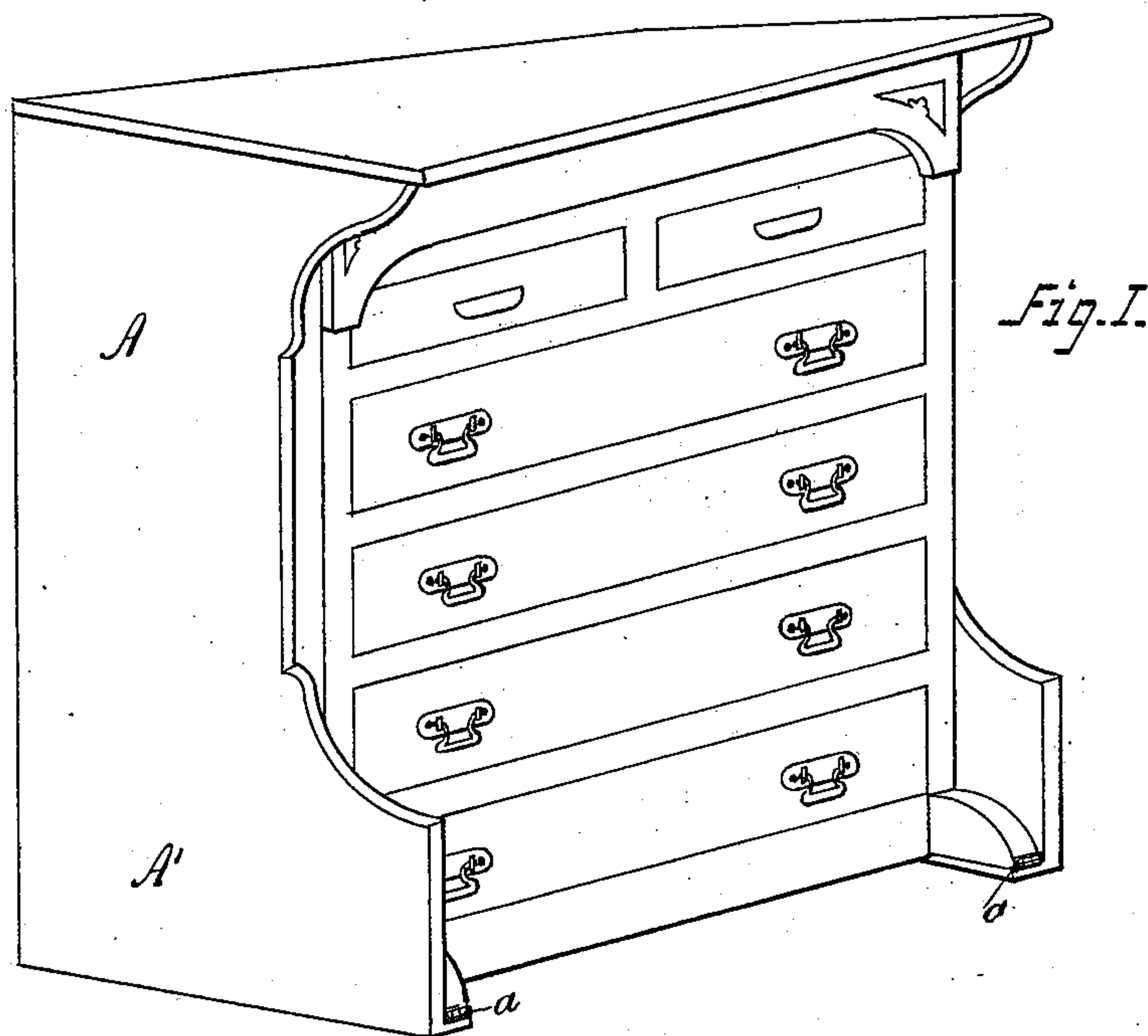
(No Model.)

2 Sheets—Sheet 1.

O. ALEXANDER.  
FOLDING BEDSTEAD.

No. 512,674.

Patented Jan. 16, 1894.



WITNESSES:

Jas. S. Embank.  
 Geo. Rayner

INVENTOR

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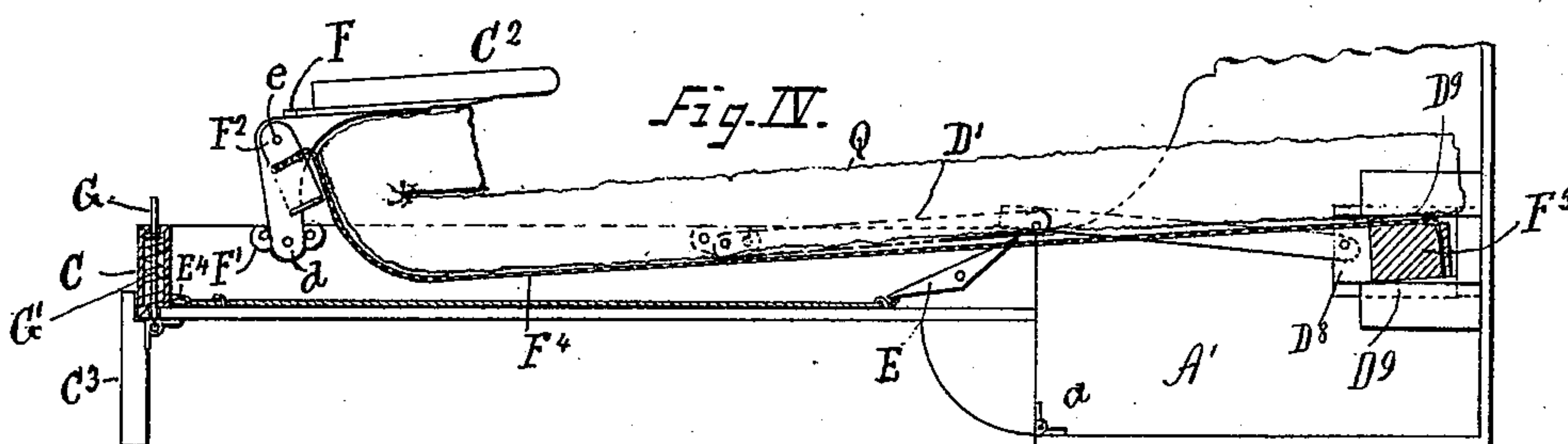
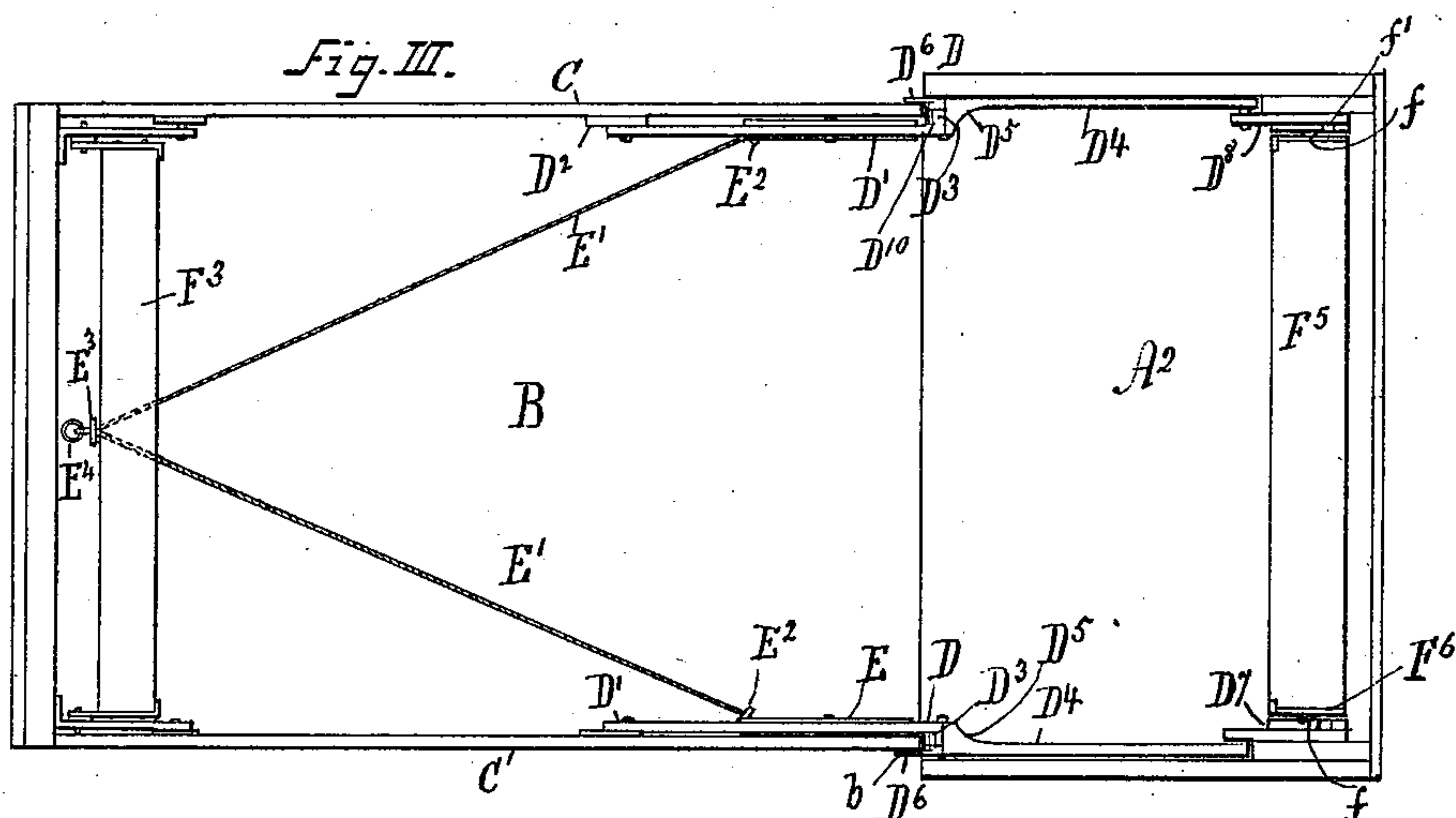
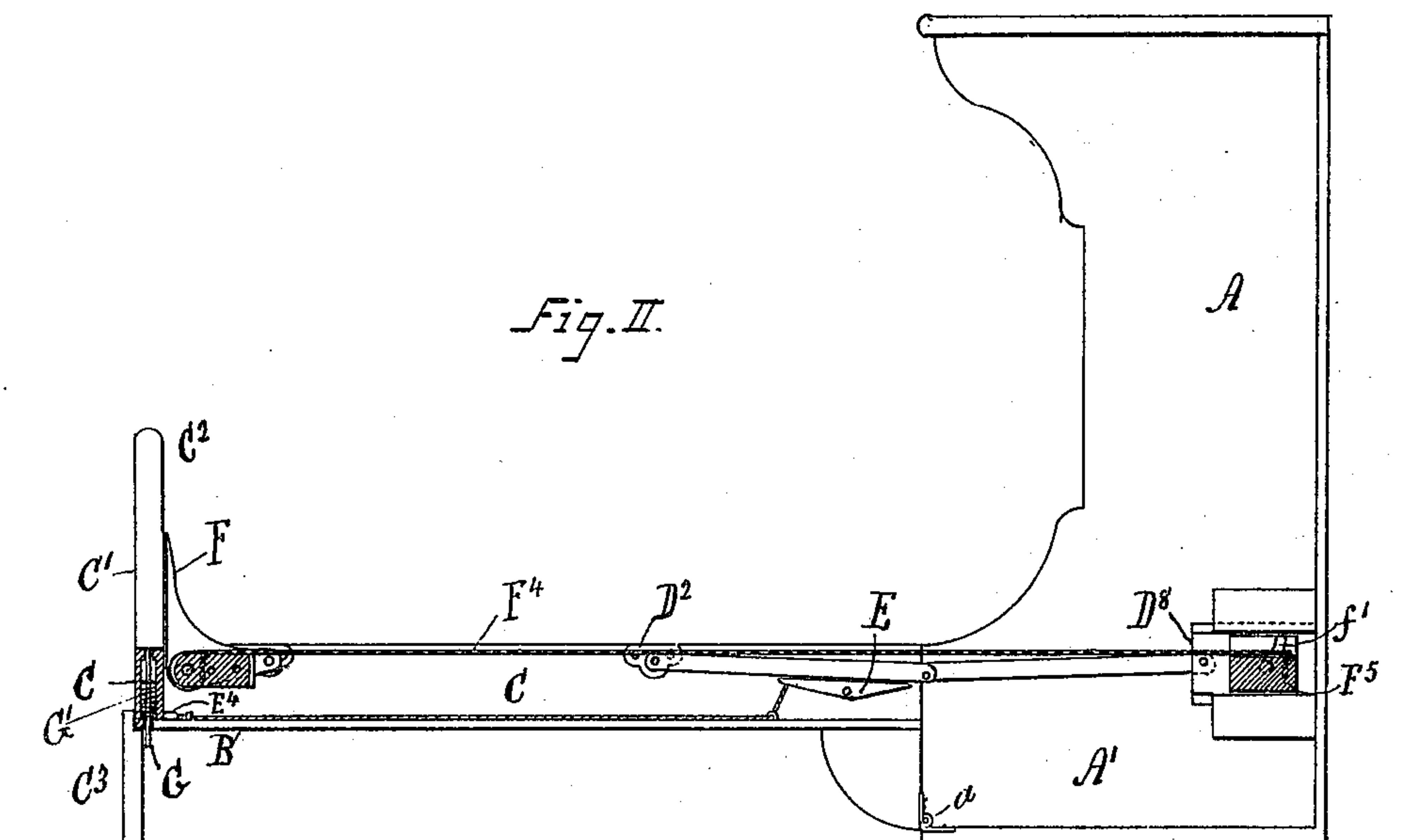
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2 Sheets—Sheet 2.

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FOLDING BEDSTEAD.

No. 512,674.

Patented Jan. 16, 1894.



WITNESSES:

*Asst. S. E. Evans*  
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# UNITED STATES PATENT OFFICE.

OSCAR ALEXANDER, OF NEW YORK, N. Y.

## FOLDING BEDSTEAD.

SPECIFICATION forming part of Letters Patent No. 512,674, dated January 16, 1894.

Application filed March 1, 1893. Serial No. 464,280. (No model.)

*To all whom it may concern,*

Be it known that I, OSCAR ALEXANDER, a citizen of the United States, and a resident of New York, in the county of New York and State of New York, have invented certain new and useful Folding Bedsteads, of which the following is a specification.

My invention relates especially to that class of folding bedsteads having the outward semblance when folded to a chiffonier, made in two sections hinged together and connected by bracing levers and by a spring wire elastic bed bottom which become rigid and level when the sections are opened out for use; moreover to economize space by constructing a longer bed in a shorter case, and also in pivoting the foot board in such a manner as it will hold the mattress in place and prevent it from displacement when the bed is folded.

The novel features of my new folding bedstead and the advantages arising therefrom are hereinafter fully described with reference to the accompanying drawings, in which—

Figure I, represents a perspective view of my bedstead folded or closed, in the form of a chiffonier. Fig. II, represents an inside view showing the bracing levers and the crank lever attached to the bed frame. Fig. III, represents a top or plan view showing the working parts in position on the bed frame. Fig. IV, represents a longitudinal section showing the heel board in position to hold the mattress. Figs. V and VI represent views of the bracing levers detached and on a larger scale. Figs. VII and VIII represent views of the crank levers detached and on a larger scale.

Similar letters of reference indicate corresponding parts.

The letter A indicates the head frame and A' the base of the head frame which is approximately of about one third the length of the bed, and which forms part A<sup>2</sup> of the bed bottom.

B indicates the remaining part of the bed bottom which forms the other two thirds of the bed bottom, which two parts when united will form a bed bottom of the ordinary length of about six feet, and which is hinged by a suitable joint to the base A' of the head frame A as at *a* at the lower outward part thereof Figs. II and IV so as to give the bedstead the

greatest length when unfolded or opened out for use.

C indicates the sides of the bedstead, C' the foot board, C<sup>2</sup> the heel piece and C<sup>3</sup> the legs which are hinged to the bed bottom B.

The letter D indicates the bracing levers, one at each side of the bedstead and consisting of the arms D' attached at one end to the inner side of the side frame C by a plate D<sup>2</sup> while the other end is provided with a lug D<sup>3</sup> and is pivoted to the arm D<sup>4</sup> provided with a shoulder D<sup>5</sup> and lip D<sup>6</sup> which engages the end of the side frame C as at *b*, while the inner end of the arm D<sup>4</sup> is loosely attached to the plate D<sup>7</sup> secured to a slide D<sup>8</sup> which has a reciprocating motion in guide ways D<sup>9</sup> attached to the inner side of each of the base frames A' of the head frame A.

The union of the arms D' and D<sup>4</sup> form a rule joint D<sup>10</sup> and when the bedstead is unfolded hold the two sections of the bedstead rigidly together, due to their centers being below the center of the other ends of the arms D' and D<sup>4</sup>, as shown in Fig. II, and in order to raise said arms when folding the bed up I pivot a lever E to the side of the bed frame C with one end bearing against the under side of the arm D' while to the other end of said lever E I attach cords E' which pass through eyelets E<sup>2</sup> on each side of the bed bottom and pass through an eyelet E<sup>3</sup> at the foot of the bed where they are united by a ring E<sup>4</sup> as shown in Figs. II, III, and IV.

The letter F designates a crank lever which is loosely pivoted at the lower part as at *d* to a plate F' screwed to the side C of the bed frame while to its upper part is fastened the heel board C<sup>2</sup>. The crank lever F moreover has a plate F<sup>2</sup> pivoted as at *e* to which is fastened a bar F<sup>3</sup> carrying one end of the wire woven spring bottom F<sup>4</sup>, while the other end of said spring F<sup>4</sup> is attached to the bar F<sup>5</sup> and fastened to the plate F<sup>6</sup> provided with tenons or rods *f* which engage suitable openings *f*' in the slides on the base frame A'. The crank levers F are so secured to the side frame C that when the heel board C<sup>2</sup> is forced down on the foot board C the pivotal center of the plate F<sup>2</sup> to which the cross bar F<sup>3</sup> is attached as at *e*, being lower than the pivotal center where said crank lever is attached to the plate F', as at *d*, will serve to strain the



wire elastic spring  $F^4$  and cause it to be stretched and made level. Moreover the heel board  $C^2$  when it is in the position last described will press the spring tenons  $G$  near  
 5 each end of the foot board  $C$  to bear against the inside of the foot  $C^3$  (see Fig. II) and prevent the foot  $C^3$  from folding; when the heel board  $C^2$  is in the position shown in Fig. IV the tenons  $G$  will resume their normal position  
 10 by the action of the springs  $G'$ , as shown in Fig. IV.

In order to prevent the mattress  $Q$  from slipping when the bedstead is folded up, the heel board  $C^3$  is turned to substantially the position shown in Fig. IV, which presses against the top of the mattress and firmly holds the mattress on the elastic spring  $F^4$ .

What I claim as new, and desire to secure by Letters Patent, is—

20 1. In a folding bedstead, the combination of a stationary section, a folding section suitably jointed to the stationary section, braces at the sides of the folding section with one end of said braces attached to reciprocating  
 25 slides in the stationary section and the other end attached to the sides of the folding section, each of the braces with two arms united by a rule joint and one provided with a lip for engaging the end of said folding section  
 30 when the bedstead is unfolded, substantially as shown and described.

2. In a folding bedstead, the combination of a stationary section, a folding section suitably hinged to the stationary section at the  
 35 outward lower portion thereof, braces at the sides of the folding section with two jointed arms, one engaging a reciprocating slide in the stationary section and the other actuated by pivots operated by a cam at the foot of the  
 40 bedstead, substantially as shown and described.

3. In a folding bedstead, the combination of a stationary section and a folding section

united at the lower portion thereof, braces at the sides of the folding section with two jointed  
 45 arms, one engaging a reciprocating slide in the stationary section, and the other actuated by pivots and operated by cords at the foot of the bed, substantially as shown and described.

4. In a folding bedstead, the combination  
 50 of a stationary section and a folding section hinged together at the lower outward part thereof, crank levers carrying a foot board and pivoted to the sides of the folding section at the foot thereof, folding legs hinged to the  
 55 folding section and spring stops thereon to prevent the legs from folding when the bed is unfolded, substantially as shown and described.

5. In a folding bedstead, the combination  
 60 with two hinged sections, of crank levers carrying a foot board, and pivoted to the sides of the folding section at the foot thereof, a rocking cross bar pivoted to said crank levers, and the continuous wire spring bottom attached  
 65 to said bar for its adjustment thereby when the bed is unfolded, substantially as shown and described.

6. In a folding bedstead, the combination with the two hinged sections, of crank levers  
 70 carrying a foot board and pivoted to the sides of the folding section, a rocking cross bar pivoted to said crank levers, the continuous wire spring bottom with one end attached to the cross bar, reciprocating slides in the sta-  
 75 tionary section with the other end of the bed bottom attached, and the braces with two jointed arms in the horizontal plane of the pivots of the crank levers, for stretching the bed bottom when the bed is unfolded, sub-  
 80 stantially as shown and described.

OSCAR ALEXANDER.

Witnesses:

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 FRANCIS C. BOWEN.